

09/987190

(FILE 'REGISTRY' ENTERED AT 16:04:51 ON 09 SEP 2004)
L1 3 S KYSLPELDYEFSAPEYISGQINEI.YT/SQSP

5-8.

L1 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2004 ACS on STN
RN 696904-07-1 REGISTRY
CN Protein (Candida albicans strain SC5314 clone US6747137-SEQID-17718) (9CI)
(CA INDEX NAME)

OTHER NAMES:

CN 1718: PN: US6747137 SEQID: 17718 claimed protein
CI MAN
SQL 229

SEQ 1 LTMFSIRSSS RVLLKASSAT TRATLNAAAS KTFTRSKYSL PELDYEFSAPE
===== 51 EPYISGQINE IHYTKHHQTY VNNLNASIEQ AVEAKSKGEV KKLVALQKAI
===== 101 NFNGGGYLNH CLWWKNLAPV SQGGGQPPSE DSKLGKQIVK QFGSLDKLIE
151 ITNGKLAGIQ GSGWAFIVKN KANGDTIDVI TTANQDTVTD PNLVPLIAID
201 AWEHAYYLQY QNVKADYFKN LWHFINWDE

HITS AT: 37-64

REFERENCE 1: 141:2410

L1 ANSWER 2 OF 3 REGISTRY COPYRIGHT 2004 ACS on STN
RN 223666-46-4 REGISTRY
CN Dismutase, presuperoxide (Candida albicans strain ATCC10231 gene SOD2
mitochondria-associated manganese-containing isoenzyme) (9CI) (CA INDEX
NAME)

OTHER NAMES:

CN GenBank AAB86583
CN GenBank AAB86583 (Translated from: GenBank AF031478)
CI MAN
SQL 234

SEQ 1 MFSIRSSSRV LLKASSATTR ATLNAASKT FTRSKYSLPE LDYEFSAPE
===== 51 YISGQINEIH YTKHHQTYVN NLNASIEQAV EAKSKGEVKK LVALEKAINF
===== 101 NGGGYLNHCL WWKNLAPVSQ GGGQPPSEDS KLGKQIVKQF GS LDKLIEIT
151 NGKLAGIQGS GWAFIVKNKA NGDTIDVITT ANQDTVTDPN LVPLIAIDAW
201 EHAYYLQYQN VKADYFKNLW HVINWKEAER RFEF

HITS AT: 35-62

REFERENCE 1: 130:322191

L1 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2004 ACS on STN
RN 204784-55-4 REGISTRY
CN Peptide, (Lys-Tyr-Ser-Leu-Pro-Glu-Leu-Asp-Tyr-Glu-Phe-Ser-Ala-Thr-Glu-Pro-
Tyr-Ile-Ser-Gly-Gln-Ile-Asn-Glu-Ile-Xaa-Tyr-Thr) (9CI) (CA INDEX NAME)
CI MAN
SQL 28

SEQ 1 KYSLPELDYE FSATEPYISG QINEIXYT
=====

HITS AT: 1-28

09/987190

REFERENCE 1: 128:242885

FILE 'CAPLUS' ENTERED AT 16:06:17 ON 09 SEP 2004
L2 3 S L1

L2 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
ED Entered STN: 14 Jun 2004
ACCESSION NUMBER: 2004:475862 CAPLUS
DOCUMENT NUMBER: 141:2410
TITLE: Nucleic acid sequences relating to Candida albicans
for diagnostics and therapeutics
INVENTOR(S): Weinstock, Keith G.; Bush, David
PATENT ASSIGNEE(S): Genome Therapeutics Corporation, USA
SOURCE: U.S., 872 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 7
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6747137	B1	20040608	US 1999-248796	19990212
US 6747137	B1	20040608	US 1999-248796	19990212
PRIORITY APPLN. INFO.:			US 1998-74725P	P 19980213
			US 1998-96409P	P 19980813
			US 1999-248796	A 19990212

AB The invention provides isolated polypeptide and nucleic acid sequences derived from the genome of Candida albicans strain SC5314, which thus comprises a DNA sequence library of C. albicans genomic DNA and targets for therapeutic drugs. The 14,103 gene plus encoded protein sequences are useful in diagnosis and therapy of pathol. conditions, preparation of antibodies against the polypeptides, and in methods for the production of

the polypeptides. The invention provides 8 preferred open reading frames: orf 970662_f3_3 (the homolog of Saccharomyces cerevisiae hypothetical 80.5-kDa protein in sin1-rad25 intergenic region); orf 480202_c3_10 (hypothetical 100.6 kDa protein in sin4-ure2 intergenic region); orf 24413557_f3_4 (probably membrane protein ylr001c); orf 4797561_c3_5 (agglutinin-like protein); orf 33595927_c3_19 (homolog of spac57a7.05 of Schizosaccharomyces pombe); orf 32116327_c2_18 (intracellular protein transport protein); orf 4720302_f1_1 (aluminum resistance protein); and orf 1173287_c3_18 (spa2 protein involved in cell polarity). The invention also provides methods for the detection, prevention, and treatment of pathol. conditions resulting from fungal infection. [This abstract record is one of seven records for this document necessitated by the large number

of index entries required to fully index the document and publication system constraints.].

IT **696904-07-1**
RL: BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (amino acid sequence; nucleic acid sequences relating to Candida albicans for diagnostics and therapeutics)

L2 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

Searcher : Shears 571-272-2528

09/987190

ED Entered STN: 12 Feb 1999
ACCESSION NUMBER: 1999:96578 CAPLUS
DOCUMENT NUMBER: 130:322191
TITLE: Manganese-containing superoxide dismutase and its gene
from *Candida albicans*
AUTHOR(S): Rhie, Gi-eun; Hwang, Cheol-Sang; Brady, Martin J.;
Kim, Seong-Tae; Kim, Yeon-Ran; Huh, Won-Ki; Baek,
Yong-Un; Lee, Byung-Hoon; Lee, Jung-Sin; Kang, Sa-Ouk
CORPORATE SOURCE: College of Natural Sciences, Department of
Microbiology, and Research Center for Molecular
Microbiology, Laboratory of Biophysics, Seoul National
University, Seoul, 151-742, S. Korea
SOURCE: Biochimica et Biophysica Acta (1999), 1426(3), 409-419
CODEN: BBACAQ; ISSN: 0006-3002
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Mitochondrial manganese-containing superoxide dismutase was purified around
112-fold with an overall yield of 1.1% to apparent electrophoretic
homogeneity from the dimorphic pathogenic fungus, *Candida albicans*. The
mol. mass of the native enzyme was 106 kDa and the enzyme was composed of
four identical subunits with a mol. mass of 26 kDa. The enzyme was not
sensitive to either cyanide or hydrogen peroxide. The N-terminal amino
acid sequence alignments (up to the 18th residue) showed that the enzyme
has high similarity to the other eukaryotic manganese-containing superoxide
dismutases. The gene *sod2* encoding manganese-containing superoxide
dismutase
has been cloned using a product obtained from polymerase chain reaction.
Sequence anal. of the *sod2* predicted a manganese-containing superoxide
dismutase that contains 234 amino acid residues with a mol. mass of 26,173
Da, and displayed 57% sequence identity to the homolog of *Saccharomyces*
cerevisiae. The deduced N-terminal 34 amino acid residues may serve as a
signal peptide for mitochondrial translocation. Several regulatory
elements such as stress responsive element and heme activator protein
2/3/4/5 complex binding sites were identified in the promoter region of
sod2. Northern anal. with a probe derived from the cloned *sod2* revealed a
0.94-kb band, which corresponds approx. to the expected size of mRNA
deduced from *sod2*.
IT 223666-46-4
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL
(Biological study)
(amino acid sequence; manganese-containing superoxide dismutase and its
gene from *Candida albicans*)
REFERENCE COUNT: 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
L2 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
ED Entered STN: 25 Mar 1998
ACCESSION NUMBER: 1998:175948 CAPLUS
DOCUMENT NUMBER: 128:242885
TITLE: Fungal antigens and process for producing the same
INVENTOR(S): Takesako, Kazutoh; Mizutani, Shigetoshi; Endo,
Masahiro; Kato, Ikunoshin
PATENT ASSIGNEE(S): Takara Shuzo Co., Ltd., Japan
SOURCE: PCT Int. Appl., 108 pp.
CODEN: PIXXD2

Searcher : Shears 571-272-2528